

37505.0202

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Michael F. Scalise

Name

Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application Of: Leising et al.

For: Silver Vanadium Oxide Provided With A Metal Oxide Coating
the specification of which is being transmitted herewith

Assistant Commissioner of Patents
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT
Pursuant to 37 CFR 1.56**

1. Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

The filing of this Information Disclosure Statement (IDS) shall not be construed as a representation that a search has been made (37 CFR 1.56(g)), an admission that the information cited is, or is considered to be material to patentability or that no other material information exists.

The filing of this IDS shall not be construed as an admission against interest in any manner (Notice of Jan. 9, 1992, 1135 O.G. 13-25, at 25).

2. Attached is Form PTO-1449. Legible copies of all items

IDS For: Silver Vanadium Oxide Provided With A Metal Oxide
Coating
Inventor: Leising et al.

3. A concise explanation of the possible relevance of the listed information items is as follows:

U.S. Patent Nos. 4,016,338 to Lauck, 4,158,722 to Lauck et al., 4,310,609 to Liang et al., 4,391,729 to Liang et al., 4,542,083 to Cava et al., 4,675,260 to Sakurai et al., 4,751,157 to Uchiyama et al., 4,751,158 to Uchiyama et al., 4,803,137 to Miyazaki et al., 4,830,940 to Keister et al., 4,964,877 to Keister et al., 4,965,151 to Takeda et al., 5,194,342 to Bito et al., 5,221,453 to Crespi, 5,298,349 to Takeuchi, 5,389,472 to Takeuchi et al., 5,545,497 to Takeuchi et al., 5,458,997 to Crespi et al., 5,472,810 to Takeuchi et al., 5,498,494 to Takeuchi et al., 5,498,495 to Takeda et al., 5,512,214 to Koksang, 5,516,340 to Takeuchi et al., 5,558,680 to Takeuchi et al., 5,567,538 to Oltman et al., 5,670,276 to Takeuchi et al., 5,695,892 to Leising et al., 5,895,733 to Crespi et al., 5,955,218 to Crespi et al., 6,093,506 to Crespi et al., 6,130,055 to Crespi et al., 6,413,669 to Takeuchi et al., 6,558,845 to Leising et al. and 6,566,007 to Takeuchi et al. teach the synthesis of vanadium-containing active materials. Prior art synthesis for SVO are also described in Livage, J. Chem. Mater. 1991, 3, 578-593, Leising, R. A.; Takeuchi, E. S. Chem. Mater. 1993, 5, 738-742 and Leising, R. A.; Takeuchi, E. S. Chem. Mater. 1994, 6, 489-495.

4. U.S. Patents Nos. 4,310,609 and 4,391,729, both to Liang et al. and 4,830,940 to Kiester et al. are discussed in the prior art section of the application.

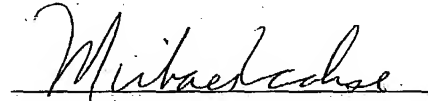
IDS For: Silver Vanadium Oxide Provided With A Metal Oxide
Coating
Inventor: Leising et al.

5. The remaining patents are examples of the general state of the art

6. The person making this statement is the agent who signs below, who makes this statement on information, supplied by the inventors and the information in the agent's file.

Respectfully submitted,

By:



Michael F. Scalise

Reg. No. 34,920

Wilson Greatbatch Technologies, Inc.
10,000 Wehrle Drive
Clarence, NY 14031
(716) 759-5810
July 31, 2003

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PTO/SB/08A(08/00)

Approved for use through 10/31/2002, OMB 0651-0031

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(Use as many sheets as necessary)*

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number		
				Filing Date		July 31, 2003
				First Named Inventor		Leising et al.
				Group Art Unit		
				Examiner Name		
Sheet	4	of	6	Attorney Docket Number		37505.0202

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code 2 (if known)			
	1	4,830,940		Keister et al.	05-16-1989	
	2	4,310,609		Liang et al.	01-12-1982	
	3	6,413,669B1		Takeuchi et al.	07-02-2002	
	4	6,130,005		Crespi et al.	10-10-2000	
	5	6,093,506		Crespi et al.	07-25-2000	
	6	5,955,218		Crespi et al.	11-21-1999	
	7	5,895,733		Crespi et al.	04-20-1999	
	8	5,695,892		Leising et al.	12-09-1997	
	9	5,670,276		Takeuchi et al.	11-23-1997	
	10	5,567,538		Oltman et al.	10-22-1996	
	11	5,558,680		Takeuchi et al.	09-24-1996	
	12	5,516,340		Takeuchi et al.	05-14-1996	
	13	5,512,214		Koksbang	04-30-1996	
	14	5,498,495		Takada et al.	03-12-1996	
	15	5,498,494		Takeuchi et al.	03-12-1996	
	16	5,472,810		Takeuchi et al.	12-05-1995	
	17	5,458,997		Crespi et al.	10-17-1995	
	18	5,545,497		Takeuchi et al.	08-13-1996	
	19	5,389,472		Takeuchi et al.	02-14-1995	
	20	5,298,349		Takeuchi	03-29-1994	
	21	5,221,453		Crespi	06-22-1993	
	22	5,194,342		Bito et al.	03-15-1993	
	23	4,965,151		Takad et al.	10-23-1990	
	24	4,964,877		Keister et al.	10-23-1990	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T6
		Office3	Number4	Kind Code5 (if known)				

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1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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Sheet	5	of	6	Attorney Docket Number	37505.0202

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				Examiner Name		
Sheet	6	of	6	Attorney Docket Number		37505.0202

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	38	SOLID-STATE CATHODE MATERIALS FOR LITHIUM BATTERIES: EFFECT OF SYNTHESIS TEMPERATURE ON THE PHYSICAL AND ELECTROCHEMICAL PROPERTIES OF SILVER VANADIUM OXIDE, RANDOLPH A. LEISING AND ESTHER SANS TAKEUCHI, CHEMISTRY OF MATERIALS, 1993	
	39	SOLID-STATE SYNTHESIS AND CHARACTERIZATION OF SILVER VANADIUM OXIDE FOR USE AS A CATHODE MATERIAL FOR LITHIUM BATTERIES, RANDOLPH A. LEISING AND ESTHER SANS TAKEUCHI, CHEMISTRY OF MATERIALS, 1994	
	40	VANADIUM PENTOXIDE GELS, J. LIVAGE, CHEM. MATER. 1991, 3, 578-593	

Examiner Signature		Date Considered	
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1 Unique citation designation number. 2 Applicant is to place a check mark here if English Translation is attached.

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